

Title (en)

Pressure differential bullet advancing structure of toy gun

Title (de)

Druckdifferenzgeschossförderstruktur für Spielzeugpistole

Title (fr)

Structure d'avancement de balle à différentiel de pression pour pistolet jouet

Publication

EP 2792990 A2 20141022 (EN)

Application

EP 13168234 A 20130517

Priority

TW 102206778 U 20130415

Abstract (en)

The present invention provides a pressure differential bullet advancing structure for advancing BB bullets, which includes an expansion device (1), a collar device (2) that is slidably received in the expansion device (1), and a pneumatic module (3) arranged at one side of the expansion device (1). The expansion device (1) includes a guide bar (12) that is received in the collar device (2). The guide bar (12) has a circumferential wall forming an air inlet opening (121) that is extended in a direction away from the pneumatic module (3) and is selectively shielded by the collar device (2). The pneumatic device generates high-pressure air that flows through the expansion device (1) to move the collar device (2) for advancing the BB bullet. When the collar device (2) is moved to such an extent that the air inlet opening (121) is exposed, the high-pressure air flows therethrough to shoot out the BB bullet.

IPC 8 full level

F41B 11/721 (2013.01); **F41B 11/64** (2013.01)

CPC (source: EP KR US)

A63H 33/18 (2013.01 - KR); **F41B 11/50** (2013.01 - KR); **F41B 11/53** (2013.01 - KR); **F41B 11/60** (2013.01 - US); **F41B 11/64** (2013.01 - EP US); **F41B 11/721** (2013.01 - EP US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 2792990 A2 20141022; **EP 2792990 A3 20161109**; CN 203518822 U 20140402; HK 1177866 A2 20130830; JP 3184986 U 20130725; KR 200477009 Y1 20150424; KR 20140005497 U 20141023; RU 136356 U1 20140110; TW M473505 U 20140301; US 2014305419 A1 20141016; US 8944040 B2 20150203

DOCDB simple family (application)

EP 13168234 A 20130517; CN 201320307548 U 20130531; HK 13105610 A 20130510; JP 2013002675 U 20130515; KR 20130004146 U 20130524; RU 2013130156 U 20130702; TW 102206778 U 20130415; US 201313894441 A 20130515